

# MPI Semantic Terms 4.0

## No “No-vote” updates

Semantic Terms Working Group

# Definition of “non-local”

- Current proposal

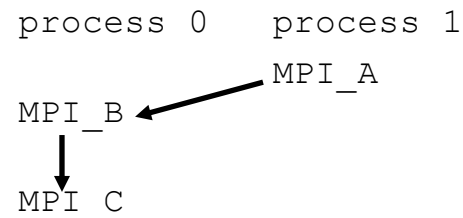
**non-local** An MPI procedure is non-local if returning may require the execution of some specific semantically-related MPI procedure on another MPI process.

- We should change it to:

**non-local** An MPI procedure is non-local if returning may require, **during its execution**, some specific semantically-related MPI procedure **to be called** on another MPI process.

This “may” allows of course that the call on the other process is already done earlier.

We do not want to use a stage, because for some procedures, it is the starting stage and for others (MPI\_Bcast\_init) it is the initialization stage..



If return from MPI\_B requires call to (i.e., the entry to) MPI\_A and call to MPI\_C requires return from MPI\_B (and no additional call), **is then MPI\_C non-local?**

Examples are

- Entry to MPI\_(l)Send → MPI\_Recv → MPI\_Get\_count
- Entry to MPI\_(l)Send → MPI\_Mprobe → MPI\_Mrecv

# Reading in June Meeting

- With that change, we go with Version-2, annotated PDF can be found here:  
<https://github.com/mpi-forum/mpi-issues/files/4780771/mpi40-report-f51be45-june2020-reading-v2-annotated.pdf>
- We removed the reference to RMA in Footnotes 17 and 18 (Footnote 18 is therefore empty and removed)
- Changes since the two-week deadline can be found here:  
<https://github.com/mpi-forum/mpi-standard/pull/116/files/f51be453bd3ca2f8100a067145aa9d6a49dc8f4f..55bf36e21263581b9608a135385f31c2c74bcd24>
- Annotated PDF file for Version-3 with these updates can be found here:  
<https://github.com/mpi-forum/mpi-issues/files/4841073/mpi40-report-june2020-reading-v3-annotated.pdf>